

LITERATURE CITED

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THE KNOWN GEOGRAPHIC DISTRIBUTION OF THE MEMBERS OF THE
ERICCAULACEAE. SUPPLEMENT 3

Harold N. Moldenke

Since the publication of the previous Supplement to this list several thousand additional specimens of this group have been examined and annotated from the herbaria of the University of Colorado at Boulder, the Facultad Nacional de Agronomia at Medellin, Colombia, the University of Massachusetts at Amherst, the Chicago Natural History Museum, the California Academy of Sciences at San Francisco, the Instituto Miguel Lillo at Tucumán, Argentina, Oregon State College at Corvallis, the State College of Washington at Pullman, Rancho Santa Ana Botanic Garden at Anaheim, California, the University of Washington at Seattle, the Instituto Darwinion at San Isidro, Argentina, the Southern Methodist University at Dallas, Texas, Oklahoma Agricultural and Mechanical College at Stillwater, the United States National Herbarium at Washington, and the Britton Herbarium at the New York Botanical Garden. These specimens have brought to light 47 new country or island records, 48 new state, province, or department records, and 30 new county or parish records. Also, 151 new binomials or trinomials, or corrections of previous entries, must be added to the alphabetic list of scientific names proposed in this group.

ISLE ST. IGNACE:

Eriocaulon septangulare With.

UNITED STATES OF AMERICA:

New York:

Eriocaulon septangulare With. (Clinton County)

New Jersey:

Eriocaulon septangulare With. (Middlesex County)

Pennsylvania:

Eriocaulon septangulare With. (Carbon & Sullivan Counties)

Maryland:

Eriocaulon Parkeri B. L. Robinson (Caroline, Cecil, Dorchester, & Harford Counties)

Virginia:

Eriocaulon Parkeri B. L. Robinson (Fairfax County)

North Carolina:

Eriocaulon decangulare L. (Craven County)

South Carolina:

Eriocaulon decangulare L. (Clarendon County)

Georgia:

Eriocaulon compressum Lam. (Baldwin County)Lachnocaulon anceps (Walt.) Morong (Charlton County)Syngonanthus flavidulus (Michx.) Ruhl. (Ware County)

Florida:

Eriocaulon compressum Lam. (Alachua & Pinellas Counties)Eriocaulon lineare Small (Putnam County)Eriocaulon Ravenelii Chapm. (Okeechobee County)Lachnocaulon anceps (Walt.) Morong (Franklin County)Lachnocaulon Engleri Ruhl. (Polk County)Lachnocaulon glabrum Körn. (Collier, Duval, Manatee, & Okeechobee Counties)Lachnocaulon minus (Chapm.) Small (Hillsborough County)

Alabama:

Eriocaulon compressum Lam. (Coffee County)Lachnocaulon digynum Körn. (Mobile County)

Mississippi:

Eriocaulon decangulare L. (Hancock County)Lachnocaulon digynum Körn. (Harrison County)

Wisconsin:

Eriocaulon septangulare With. (Oconto County)

MEXICO:

Eriocaulon microcephalum H.B.K. (Tamaulipas)

VENEZUELA:

Eriocaulon Steyermarkii Moldenke -- delete the ***Paepalanthus dichotomus Klotzsch (Amazonas)Syngonanthus Steyermarkii Moldenke (Táchira)*

COLOMBIA:

Paepalanthus andicola var. villosus Moldenke (Cundinamarca)*

BRITISH GUIANA:

Comanthera Linderi L. B. Sm.*

SURINAM:

Eriocaulon Steyermarkii Moldenke

PERU:

Paepalanthus Karstenii Ruhl. (Cuzco)

BRAZIL:

Eriocaulon Glaziovii Ruhl. (Goyaz)

Eriocaulon tenuifolium Klotzsch (Bahia)

Leiostrix curvifolia var. microphylla Alv. Silv. (Minas Geraes)*

Leiostrix Dielsii Ruhl. (São Paulo)

Leiostrix hirsuta var. Magalhãesii Alv. Silv. -- to be deleted

Leiostrix polystemma var. robusta Alv. Silv. (Paraná)

Paepalanthus amoenus var. curralensis Alv. Silv. (Minas Geraes)*

Paepalanthus armeria Mart. (Minas Geraes)

Paepalanthus batocephalus Ruhl. (Minas Geraes)

Paepalanthus Benedicti Alv. Silv. (Minas Geraes) -- this is the preferred orthography of this binomial

Paepalanthus caracensis Alv. Silv. (Minas Geraes)*

Paepalanthus cearaensis Ruhl. (Minas Geraes)

Paepalanthus decipiens Ruhl. (Minas Geraes)

Paepalanthus dupatya Mart. (Minas Geraes)

Paepalanthus elongatus var. ciliatus Körn. (Minas Geraes)*

Paepalanthus glabrifolius Ruhl. (Minas Geraes)

Paepalanthus grão-mogolensis Alv. Silv. -- this is the preferred orthography of this binomial.

Paepalanthus Hilarei var. piauhyensis Ruhl. (Minas Geraes)

Paepalanthus itatiaiensis Ruhl. (Minas Geraes)

Paepalanthus jordanensis Alv. Silv. (São Paulo)

Paepalanthus Lundii Körn. (Minas Geraes)

Paepalanthus multicostatus Ruhl. (São Paulo)

Paepalanthus myocephalus var. minor Körn. (Bahia)

Paepalanthus myriophyllus Alv. Silv. (Minas Geraes)

Paepalanthus parvus Ruhl. (Pernambuco)

Paepalanthus planifolius var. alpestris Körn. (Minas Geraes)

Paepalanthus rigidulus Mart. (Minas Geraes)

Paepalanthus Sellowianus Körn. (Minas Geraes)

Paepalanthus Standleyi Moldenke (Minas Geraes)*

Paepalanthus stellaris (Guill.) Kunth (Minas Geraes)*

Paepalanthus suffruticans var. angustifolius Alv. Silv. (Minas Geraes)*

Paepalanthus Warmingianus (Körn.) Körn. -- this is the correct orthography of this binomial.

Syngonanthus aquaticus Alv. Silv. (Minas Geraes)

Syngonanthus compactus Ruhl. (Amazonas)

Syngonanthus densus (Körn.) Ruhl. (Piahy)

Syngonanthus gracilis (Körn.) Ruhl. (Minas Geraes)

Syngonanthus gracilis var. setaceus Ruhl. (Bahia)

Syngonanthus grão-mogolensis Alv. Silv. -- this is the correct orthography of this binomial

Syngonanthus habrophyus Ruhl. (Minas Geraes)

Syngonanthus nitens (Bong.) Ruhl. (Minas Geraes)

Syngonanthus oblongus (Körn.) Ruhl. (Goyaz)

Syngonanthus oblongus var. aequinoctialis Ruhl. (Bahia)

Syngonanthus Schwackei Ruhl. (Bahia)

Syngonanthus umbellatus var. Liebmannianus (Körn.) Ruhl. (Mattogrosso)

MARACÁ ISLAND:

Paepalanthus polytrichoides Kunth

Syngonanthus bulbifer (Huber) Ruhl.

MARAJÓ ISLAND:

Paepalanthus Lamarckii Kunth

Philodice Hoffmannseggii Mart.

Syngonanthus gracilis var. amazonicus Ruhl.

Syngonanthus Huberi Ruhl.

Syngonanthus umbellatus (Lam.) Ruhl.

NEPAL:

Eriocaulon oryzetorum Mart.

INDIA:

Eriocaulon nepalense Prescott (Bombay)

MANCHUKUO:

Eriocaulon robustius (Maxim.) Mak.

CHINA:

Eriocaulon formosanum Hayata (Kwangtung)

KOREA:

Eriocaulon robustius (Maxim.) Mak.

FORMOSA:

Eriocaulon cinereum R. Br.

Eriocaulon formosanum Hayata -- delete the "*"

Eriocaulon petrospermum Hayata -- to be deleted

Eriocaulon pterospermum Hayata*

JAPAN:

Eriocaulon alpestre Hook. f. & Thoms. (Hokkaido)

Eriocaulon cinereum R. Br. (Honshiu) -- delete "Musashi"

Eriocaulon hondoense Satake (Hokkaido, Honshiu, Kiushiu, & Yezo)*

Eriocaulon hondoense var. pilosum Satake (Honshiu)*

Eriocaulon hondoense var. stellatum Satake (Honshiu)*

Eriocaulon perplexum Satake & Hara (Hokkaido)*

Eriocaulon piliphorum Satake (Honshiu)*

Eriocaulon robustius (Maxim.) Mak. (Honshiu, Kiushiu, Shikoku, & Yezo)

Eriocaulon sikokianum Maxim. (Hokkaido)

Eriocaulon truncatum Hamilt. (Kiushiu)

Eriocaulon Zytanii Satake (Honshiu)*

AUSTRALIA:

Eriocaulon scariosum J. Sm. -- delete the "*"

BRIBIE ISLAND:

Eriocaulon australe R. Br.Eriocaulon scariosum J. Sm.

DOUBLE ISLAND:

Eriocaulon australe R. Br.Eriocaulon scariosum J. Sm.

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Addenda and errata to the alphabetic list of scientific names proposed in the Eriocaulaceae, including mis-spellings and mis-accreditations

Actinocephalus polyanthus Kunth = Paepalanthus polyanthus (Bong.) Kunth

Blastocaulon rupestris (Gard.) Ruhl. = Blastocaulon rupestre (Gard.) Ruhl.

Blastocaulum Ruhl. = Blastocaulon Ruhl.

Carpocephalus caulescens Kunth = Syngonanthus caulescens (Poir.) Ruhl.

Eriocaulon decangulare Lightf. = Eriocaulon septangulare With.

Eriocaulon eleocharoides Chapm. = Lachnocaulon Engleri Ruhl.

Eriocaulon floridanum Chapm. = Eriocaulon decangulare L.

Eriocaulon hondoense Satake

Eriocaulon hondoense var. pilosum Satake

Eriocaulon hondoense var. stellatum Satake

Eriocaulon iaponicum Körn.

Eriocaulon japonicum Körn. = Eriocaulon iaponicum Körn.

Eriocaulon Kunthii var. j Körn. = Eriocaulon Kunthii Körn.

Eriocaulon longifolium var. Wallichianum Burbidge = Eriocaulon longifolium Nees

Eriocaulon longirostrum Alv. Silv. = Eriocaulon longirostrum Alv. Silv. & Ruhl.

Eriocaulon Miquelianum Auct. Jap. = Eriocaulon hondoense Satake

Eriocaulon Miquelianum Koeck. = Eriocaulon Miquelianum Körn.

Eriocaulon nipponicum Tatew. = Eriocaulon perplexum Satake &

Hara

Eriocaulon perplexum Satake & Hara

Eriocaulon petrospermum Hayata = Eriocaulon pterospermum Hayata

Eriocaulon pterospermum Hayata

Eriocaulon piliphorum Satake

Eriocaulon pumilum Chapm. = Lachnocaulon Engleri Ruhl.

Eriocaulon Ravenelli Chapm. = Eriocaulon Ravenelii Chapm.

Eriocaulon Ravenelii Chapm. = Eriocaulon Ravenelii Chapm.

Eriocaulon Sellovianum Kunth = Eriocaulon Sellowianum Kunth

Eriocaulon spongiosum Alv. Silv. = Eriocaulon spongiosifolium Alv. Silv.

Eriocaulon stellare Guill. = Paepalanthus stellaris (Guill.) Kunth

Eriocaulon truncatum Buch.-Ham. = Eriocaulon truncatum Hamilt.

Eriocaulon Zyotanii Satake

Eupaepalanthus Freyreissii Körn. = Paepalanthus Freyreissii
(Thumb.) Körn.

Eupaepalanthus minutulus Mart. = Paepalanthus minutulus Mart.

Eupaepalanthus Oerstedianus Körn. = Paepalanthus Oerstedianus
Körn.

Eupaepalanthus plantagineus Körn. = Paepalanthus plantagineus
(Bong.) Körn.

Eupaepalanthus Schenckii V. A. Poul. = Paepalanthus Schenckii
V. A. Poul.

Eupaepalanthus Schraderi Körn. = Paepalanthus bifidus (Schrad.)
Kunth

Eupaepalanthus tortilis Körn. = Paepalanthus tortilis (Bong.)
Mart.

Eupaepalanthus Warmingianus Körn. = Paepalanthus Warmingianus
(Körn.) Körn.

Leiothrix afinis Alv. Silv. = Leiothrix afinis Alv. Silv.

Leiothrix araxaensis Alv. Silv. = Leiothrix araxaensis Alv.
Silv.

Leiothrix curvifolia var. microphylla Alv. Silv.

Leiothrix flavescens (Körn.) Ruhl. = Leiothrix flavescens
(Bong.) Ruhl.

Leiothrix hirsuta var. Blanchetiana Ruhl. = Leiothrix hirsuta
var. Blanchetiana (Körn.) Ruhl.

Leiothrix hirsuta var. Magalhãesii Alv. Silv. = Leiothrix Go-
mesii Alv. Silv.

Leiothrix lanuginosa Bong. = Leiothrix curvifolia var. lanugin-
osa (Bong.) Ruhl.

Leiothrix Michaelii Alv. Silv. = Leiothrix Michaelii Alv. Silv.

Leiothrix trichophyllus Alv. Silv. = Leiothrix trichopus Alv.
Silv.

Leiothrix vivipara (Mart.) Ruhl. = Leiothrix vivipara (Bong.)
Ruhl.

Leptocephali Ruhl. -- a group of Paepalanthus Mart.

Lophophyllum Itatiaiae Körn. = Leiothrix Beckii (Szysz.) Ruhl.

Nasmythia angustifolia Chapm. = Eriocaulon compressum Lam.

Paepalanthus amoenus Körn. = Paepalanthus amoenus (Bong.) Körn.

Paepalanthus amoenus var. curralensis Alv. Silv.

Paepalanthus andicola var. villosus Moldenke

Paepalanthus Arnisi Ruhl. = Paepalanthus stellaris (Guill.)
Kunth

Paepalanthus Benedicti Alv. Silv.

Paepalanthus bryoides Kunth = Paepalanthus bryoides (Bong.)
Kunth

Paepalanthus canescens (Bong.) Ruhl. = Paepalanthus canescens
(Bong.) Körn.

Paepalanthus canescens var. angustifolia Ruhl. = Paepalanthus
canescens f. angustifolius Ruhl.

Paepalanthus caparoensis Ruhl. = Paepalanthus caparoensis Ruhl.

- Paepalanthus caracensis Alv. Silv.
Paepalanthus cearensis Ruhl. = Paepalanthus cearaensis Ruhl.
Paepalanthus chloronema Ruhl. = Paepalanthus chloronema Alv. Silv.
Paepalanthus ciliatus (Bong.) Ruhl. = Paepalanthus ciliatus (Bong.) Kunth
Paepalanthus cillicatus Ruhl. = Paepalanthus ciliolatus Ruhl.
Paepalanthus Clausenianus Körn. = Paepalanthus Claussenianus Körn.
Paepalanthus corymbosus (Bong.) Ruhl. = Paepalanthus corymbosus (Bong.) Kunth
Paepalanthus diplobator Ruhl.
Paepalanthus diplobetor Ruhl. = Paepalanthus diplobator Ruhl.
Paepalanthus diplobetor Ruhl. = Paepalanthus diplobator Ruhl.
Paepalanthus diuaticatus (Bong.) Ruhl. = Paepalanthus divaricatus (Bong.) Kunth
Paepalanthus dominguensis Ruhl. = Paepalanthus domingensis Ruhl.
Paepalanthus Edwallii Alv. Silv. = Leiothrix Edwallii Alv. Silv.
Paepalanthus elongatus Körn. = Paepalanthus elongatus (Bong.) Körn.
Paepalanthus elongatus var. ciliata Körn. = Paepalanthus elongatus var. ciliatus Körn.
Paepalanthus elongatus var. ciliatus Körn.
Paepalanthus erectifolius var. grandifolia Alv. Silv. = Paepalanthus erectifolius var. grandifolius Alv. Silv.
Paepalanthus exiguus Körn. = Paepalanthus exiguus (Bong.) Körn.
Paepalanthus falcifolius Ruhl. = Paepalanthus falcifolius Körn.
Paepalanthus flacidus Kunth = Paepalanthus flaccidus (Bong.) Kunth
Paepalanthus flavidulis Kunth = Syngonanthus flavidulus (Michx.) Ruhl.
Paepalanthus Freyreissi Körn. = Paepalanthus Freyreissii (Thumb.) Körn.
Paepalanthus grao-mogolensis Alv. Silv. = Paepalanthus grao-mogolensis Alv. Silv.
Paepalanthus grao-mogolensis Alv. Silv.
Paepalanthus Hilairei var. pihauhyensis Ruhl. = Paepalanthus Hilairei var. pihauhyensis Ruhl.
Paepalanthus incanus Kunth = Paepalanthus incanus (Bong.) Körn.
Paepalanthus Langsdorffii Körn. = Paepalanthus Langsdorffii (Bong.) Körn.
Paepalanthus Leisseringii Ruhl. = Paepalanthus Leisringii Ruhl.
Paepalanthus lepidus Alv. Silv.
Paepalanthus lycopodiifolius Alv. Silv. = Paepalanthus lycopodioides Alv. Silv.
Paepalanthus macrorrhizus Kunth = Paepalanthus macrorrhizus (Bong.) Kunth
Paepalanthus microphyllus (Guill.) Ruhl. = Paepalanthus microphyllus (Guill.) Kunth

- Paepalanthus myocephalus var. major Körn. = Paepalanthus myocephalus (Mart.) Körn.
- Paepalanthus myocephalus var. minor Körn.
- Paepalanthus nacrothrichus Alv. Silv. = Paepalanthus macrotrichus Alv. Silv.
- Paepalanthus negregens Alv. Silv. = Paepalanthus nigrescens Alv. Silv.
- Paepalanthus planifolius Körn. = Paepalanthus planifolius (Bong.) Körn.
- Paepalanthus plantagineus Körn. = Paepalanthus plantagineus (Bong.) Körn.
- Paepalanthus plumosus Körn. = Paepalanthus plumosus (Bong.) Körn.
- Paepalanthus polyandros Alv. Silv. = Paepalanthus polyandrus Alv. Silv.
- Paepalanthus polyanthus Kunth = Paepalanthus polyanthus (Bong.) Kunth
- Paepalanthus polyanthus var. Körn. = Paepalanthus polyanthus (Bong.) Kunth
- Paepalanthus preadensatus Alv. Silv. = Paepalanthus praedensatus Alv. Silv.
- Paepalanthus pubescens var. chapadensis Alv. Silv. = Paepalanthus pubescens var. chapadensis Ruhl.
- Paepalanthus pullus var. longepilosa Alv. Silv. = Paepalanthus pullus var. longepilosus Alv. Silv.
- Paepalanthus ramosus Kunth = Paepalanthus ramosus (Wikstr.) Kunth
- Paepalanthus Riedelianus var. macrocephala Alv. Silv. = Paepalanthus Riedelianus (Bong.) Körn.
- Paepalanthus saxatilis Körn. = Paepalanthus saxatilis (Bong.) Körn.
- Paepalanthus Schlechteri (Ruhl.) Macbr. = Syngonanthus Schlechteri Ruhl.
- Paepalanthus Schwackeanus var. glabrecens Alv. Silv. = Paepalanthus Schwackeanus var. glabrescens Alv. Silv.
- Paepalanthus sellowianus Körn. = Paepalanthus Sellowianus Körn.
- Paepalanthus spirophorus Alv. Silv. = Paepalanthus spirophorus Alv. Silv.
- Paepalanthus stellaris (Guill.) Kunth
- Paepalanthus stellaris Kunth = Paepalanthus stellaris (Guill.) Kunth
- Paepalanthus suffruticans var. angustifolia Alv. Silv. = Paepalanthus suffruticans var. angustifolius Alv. Silv.
- Paepalanthus suffruticans var. angustifolius Alv. Silv.
- Paepalanthus trichopetalus Alv. Silv. = Paepalanthus trichopetalus Körn.
- Paepalanthus trichophyllus Körn. = Paepalanthus trichophyllus (Bong.) Körn.
- Paepalanthus vellosioides Körn. = Paepalanthus vellozioides

Körn.

- Paepalanthus virides Körn. = Paepalanthus viridis Körn.
Paepalanthus Warmingianus Körn. = Paepalanthus Warmingianus
 (Körn.) Körn.
Paepalanthus Warmingianus (Körn.) Körn.
Paepalanthus Warmingii Körn. = Paepalanthus Warmingianus (Körn.)
 Körn.
Philodice Hoffmannsegii Mart. = Philodice Hoffmannsegii Mart.
Platycaulon consanguineum Körn. = Paepalanthus planifolius var.
consanguineus (Körn.) Ruhl.
Psilocephalus nitens Kunth = Syngonanthus nitens (Bong.) Ruhl.
Syngonanthus aciphyllus (Körn.) Ruhl. = Syngonanthus aciphyllus
 (Bong.) Ruhl.
Syngonanthus anthemidiflorus var. ξ Körn. = Syngonanthus anth-
emiflorus (Bong.) Ruhl.
Syngonanthus caracensis var. glabrescens Alv. Silv. = Syngonan-
thus caracensis var. glabrescens Alv. Silv.
Syngonanthus caulescens (Kunth) Ruhl. = Syngonanthus caulescens
 (Poir.) Ruhl.
Syngonanthus caulescens var. bello-horizontina Alv. Silv. =
Syngonanthus caulescens var. bellohorizontinus Alv. Silv.
Syngonanthus cipoensis Alv. Silv. = Syngonanthus cipoënsis Alv.
 Silv.
Syngonanthus goyazensis (Bong.) Ruhl. = Syngonanthus goyazensis
 (Körn.) Ruhl.
Syngonanthus gracilis (Kunth) Ruhl. = Syngonanthus gracilis
 (Körn.) Ruhl.
Syngonanthus gracilis var. α (Kunth) Ruhl. = Syngonanthus grac-
ilis (Körn.) Ruhl.
Syngonanthus gracilis var. microphylla Alv. Silv. = Syngonanth-
us gracilis (Körn.) Ruhl.
Syngonanthus grac-mogolensis Alv. Silv. = Syngonanthus grão-
mogolensis Alv. Silv.
Syngonanthus grão-mogolensis Alv. Silv.
Syngonanthus helminthorrhizus (Mart.) Ruhl. = Syngonanthus hel-
minthorrhizus (Mart.) Ruhl.
Syngonanthus lanceolatus Alv. Silv. = Syngonanthus lanceolatus
 Alv. Silv.
Syngonanthus nigrescens Alv. Silv. = Syngonanthus niger Alv.
 Silv.
Syngonanthus nitens var. Koernickeana Ruhl. = Syngonanthus
nitens var. Koernickei Ruhl.
Syngonanthus niveus (Kunth) Ruhl. = Syngonanthus niveus (Bong.)
 Ruhl.
Syngonanthus oblongus var. aequinoxialis Ruhl. = Syngonanthus
oblongus var. aequinoctialis Ruhl.
Syngonanthus pallens Alv. Silv.
Syngonanthus pallidus Alv. Silv. = Syngonanthus pallens Alv.
 Silv.

Syngonanthus Steyermarkii Moldenke

Syngonanthus umbellatus var. Liebmanniana Ruhl. = Syngonanthus umbellatus var. Liebmannianus (Körn.) Ruhl.

Trichocalyx rufulus Kunth = Leiothrix rufula (A. St. Hil.) Ruhl.

Addenda

Paepalanthus Hilairei var. paiuhyensis Ruhl. = Paepalanthus Hilairei var. piauhyensis Ruhl.

Syngonanthus atro-virens Ruhl. = Syngonanthus atrovirens (Körn.) Ruhl.

ADDITIONAL NOTES ON THE GENUS PETREA. IV

Harold N. Moldenke

PETREA Houst.

References: Irmão Augusto, Flora do Rio Grande do Sul 227 [as "Petraeae L."]. 1946; E. H. Walker, Contrib. U. S. Nat. Herb. 30 (1): 402. 1947.

According to Dr. L. H. Bailey's list of nurserymen handling various species of cultivated plants, the Everglades and the Royal Palm nurseries in Florida handle P. volubilis.

The Glaziou 16320 [Macbride photos 24636] distributed as "Petrea Glaziovii Briq." is solanaceous.

PETREA ANDREI Moldenke

Additional citations: ECUADOR: Loja: R. Espinosa 1171 (N).

PETREA ASPERA Turcz.

Additional citations: VENEZUELA: Yaracuy: Killip 37068 (S).

PETREA BRAÇTEATA Steud.

Additional citations: BRITISH GUIANA: A. C. Smith 2626 (S).

PETREA MACROSTACHYA Benth.

The species is called "sandpaper vine" in British Guiana and is described as a tough gray "rope" with stems about 1 cm. in diameter, not reaching to the crown of trees, leaves stiffly leathery and scabrous, flowers in long terminal drooping spikes, the calyx-lobes enlarged, membranous, purple, and the "flowers" tubular and deep-purple.

Additional citations: BRITISH GUIANA: Fanshawe 4854 [F.2118] (N); Forest Dept. British Guiana 4854 [F.2118] (N); A. C. Smith 3401 (S).